

BOGDANSKI, K.; BOGDANSKA, H.; WIERZBICKI, M.; OSTROWSKA, I.

Rate of vitamin C penetration from fruit flesh into the surrounding sucrose syrup. Rocznik chem zywn 8:67-74 '61.

1. Fruit Horticultural Institute, Skierniewice.

RYBAKOWA, Maria; OSTROWSKA, Jadwiga

Diagnosis of diabetes in infants according to our observations.  
Endokr. Pol. 13 no.2:235-239 '62.

1. I Klinika Dziecieca A. M. w Krakowie Kierownik: prof. dr T. Giza.

(DIABETES MELLITUS in inf & child)

"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001238520006-4

Ryan, John D., Jr.

1. Name of subject: John D. Ryan, Jr.  
2. Date of birth: 10/10/1936

3. Present address: 1000 N. 10th Street, Institute of  
Political Science, University of Denver, Denver, Colorado.

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CIA-RDP86-00513R001238520006-4"

OSTROWSKA-KRYSIAK, Barbara; WOLF, Jadwiga; PIECHOWSKA, Miroslawa; BORENSZTAJN,  
David, oraz wspol. tech. Teresa Kolasa

Studies on production of erythromycin. Med. dosw. mikrob. 10 no.2:  
165-174 1958.

1. Z Zakladu iotykow PZH w Warszawie.  
(ERYTHROMYCIN, preparation of,  
fermentation technic (Pol))

PIECHOWSKA, Miroslawa; OSTROWSKA-KRYSLAK, Barbara; WOLF, Jadwiga; BORENSZTAJN,  
David; Wspolpr. "Techn. Terysa Kolasz"

Studies on production of erythromycin; chemical and analytical parts.  
Med. dosw. mikrob. 10 no.2:175-183 1958.

1. Z Zakladu Antybiotykow PZH w Warszawie.  
(ERYTHROMYCIN, preparation of.  
chem. & analytic aspects (Pol))

BALCAR-BORON, Anna; OSTROWSKA-SKOŁA, Janina

Fibrinolysis of serum globulins in lipoid nephrosis in children.  
Pol. tyg. lek. 17 no.27:1061-1063 2 Jl '62.

1. z II Kliniki Dziecięcej AM we Wrocławiu; kierownik: prof. dr. med.  
Maria Wierzbowska.  
(SERUM GLOBULIN) (FIBRINOLYSIS) (NEPHROD LIPOID)

KMITA, Stanislaw; OSTROWSKA-STACHOWA, Helena

A case of nasopharyngeal tumor (lymphoepithelioma) in a 5-year-old child.  
Pediatria polska 34 no.5:722-724 May 59.

1. Z I Kliniki Chorob Dzieci A.M. w Lodz i p.o. Kierownik: doc. dr med.

K. Stoczyński. Adres: Lodz, ul. Armii Czerwonej 15.

(CARCINOMA, EPIDERMOID, in inf. & child,

nasopharynx (Pol))

(NAROPHARYNX, neoplasms,

epidermoid carcinoma in child (Pol))

BY DR. I. DICA Sec 6 Vol 13/2 Internal Med. 1958

4641. BEHAVIOUR OF SERUM PROTEINS IN THE COURSE OF LEUKAEMIAS.  
Zachowanie się białek surowicy w przebiegu białaczek - Ostrowska A  
III. Klin. Chor. Wewn. A.M., Kraków - POL. TYG. LEK. T938. 13/11  
(396-400) Graphs 1 Tables 5

Electrophoretic changes of protein fractions in the serum were analysed before treatment in patients with acute leukaemia, chronic myeloid leukaemia and with chronic lymphatic leukaemia; with exception of the latter also after treatment. Notwithstanding considerable divergence the results obtained show statistically significant differences in separate groups of the patients. In granulocytic leukaemias a decrease of the albumin level and an increase of  $\alpha_1$ -fraction and of  $\gamma$ -globulins were observed; moreover, those deviations are less pronounced in chronic granulocytic leukaemia. In comparison with myeloid leukaemia, a higher albumin level and a lower  $\gamma$ -globulin level were found in chronic lymphatic leukaemia, not exceeding, however, the normal values. In the period of remission after the treatment an increase of  $\gamma$ -globulins seems to be a characteristic phenomenon. The cases concerned 18 with myeloblastosis, 19 with chronic myeloid leukaemia, 10 with chronic lymphoid leukaemia, 8 with acute leukaemia, and 7 with 'chronic granulocytic leukaemia'.

(VI, 5, 16)

EXCERPTA MEDICA Sec 16 Vol 7/2 Cancer Feb 59

723. *Behaviour of serum proteins in the course of leukemias*. Zachowanie się białek surowicy w przebiegu leukazek. OSTRÓWSKA A. III Klin. Chor. Wewn. A. M., Kraków  
Pol. Tyg. lek. 1958, 13 (1) 739 (400) Graphy i Tables 5

Electrophoretic changes of protein fractions in the serum were analysed before treatment in patients with acute leukaemia, chronic myeloid leukaemia and chronic lymphatic leukaemia, and with the exception of the latter after treatment also. Notwithstanding considerable divergence the results obtained show statistically significant differences in separate groups of patients. In granulocytic leukemias a decrease of the albumin level and an increase of  $\alpha_2$ -fraction and of  $\gamma$ -globulins were

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observed, moreover, those deviations are less pronounced in chronic granulocytic leukaemia. In comparison with myeloid leukaemia, a higher albumin level and a lower  $\gamma$ -globulin level were found in chronic lymphatic leukaemia, but not exceeding the normal values. In the period of remission after the treatment an increase of  $\gamma$ -globulins seems to be a characteristic phenomenon. The cases concerned 18 with myeloblastosis, 19 with chronic myeloid leukaemia, 10 with chronic lymphoid leukaemia, 8 with acute leukaemia, and 7 with 'chronic granulocytic leukaemia'.

OSTROWSKA

BC

13 III

Effect of small amounts of superphosphate on the growth of plants receiving phosphate as a fertilizer. M. Ostrouska and J. Mierzwa (Rocznik. Polak. Landz. 1955, 26, 397-398; Biol. Zent., 1955, A, 3, 399-400).--On soils treated with phosphate, small amounts of superphosphate drilled immediately beneath the seeds produced heavier yields than would be anticipated from considerations of the effects of the two P fertilizers separately. Such treatment accelerated growth and maturity, increased the  $P_2O_5$  content of the plants and the N content of the grain, narrowed the grain:straw ratio, but did not affect the P:N ratio of the grain.

A. G. P.

ADD-116 METALLURGICAL LITERATURE CLASSIFICATION

SEARCHED \_\_\_\_\_

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INDEXED \_\_\_\_\_

SERIALIZED \_\_\_\_\_

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**POL**

Applicability of Traube's rule to the inhibiting action of fatty acids on stress corrosion of steel. M. Szyrkowski and T. Ostrowska. *Brit. Steel. Inst. Jnl.*, Clowes III, 2, No. 7, 345-7 (1958) (English).--A wire, 0.8 mm. diam., and analysing C 0.09, Mn 0.35, Si 0.00, P 0.028, S 0.048, Cu 0.47, Ni 0.03 was tested in 500 mm. lengths. The cold-drawn wire was heated 30 min. in H<sub>2</sub> at 900°, to give a tensile strength of 26.0 kg./sq. mm. One end of the wire was fastened to a glass hook on the bottom of a hollow-walled tube. The wire ran vertically out of the tube and was hung over 2 pulleys with a 3-kg. wt. suspended from the opposite end to produce a stress of 19.7 kg./sq. mm. Forty-five ml. of 0.7 soln. NH<sub>4</sub>NO<sub>3</sub> was poured into the vessel, and H<sub>2</sub>O vapor at 100° was circulated through the wall of the tube. Fatty acids were introduced into the soln. in MeOH solns. Graphs show the relation between the corrosion time and concn. for 3 monocarboxylic fatty acids with an unbranched chain: butyric, hexanoic, and heptanoic. The curves indicate that the greater the no. of C atoms in a mol. of a fatty acid the smaller the crit. concn. necessary for reducing the rate of stress corrosion cracking. Mols. of fatty acid, becoming adsorbed on the active centers of the steel surface, make them hydrophobic and this, since it renders access of the corroding medium difficult, contributes to a slowing-down of the corrosion process. The results denote that the extent to which the stress corrosion cracking process is inhibited depends on the length of the hydrocarbon chain, in a way conforming to the rule of Traube (Ann. 263, 27 (1891)) and Szyrkowski (C.R. 3, 133) which was formulated for adsorption on the surface of eq. today.

C. W. Eckart

OSTROWSKA, J.

POLON

The influence of fatty acids on the polarization curves of iron in ammonium nitrate. M. Srołakowski and T. Ostrowska. *Bull. Acad. polon. sci., Classe III*, 1, 20-31 (1953) (in English).—Plotting of the polarization curves of iron in a 3N soln. of  $\text{NH}_4\text{NO}_3$  in the presence of different normal fatty acids, ranging from  $\text{C}_2\text{H}_4\text{O}_2$  to  $\text{C}_8\text{H}_{16}\text{O}_2$ , showed that addn. of these compds. influence polarization bld. of the anode and of the cathode, although to a lesser degree in the case of the latter. The extent of this influence depends on the no. of C atoms in a mol. of fatty acid. The presence of fatty acids facilitates the passivation of Fe anodes in an  $\text{NH}_4\text{NO}_3$  soln. / Bernard Rubin

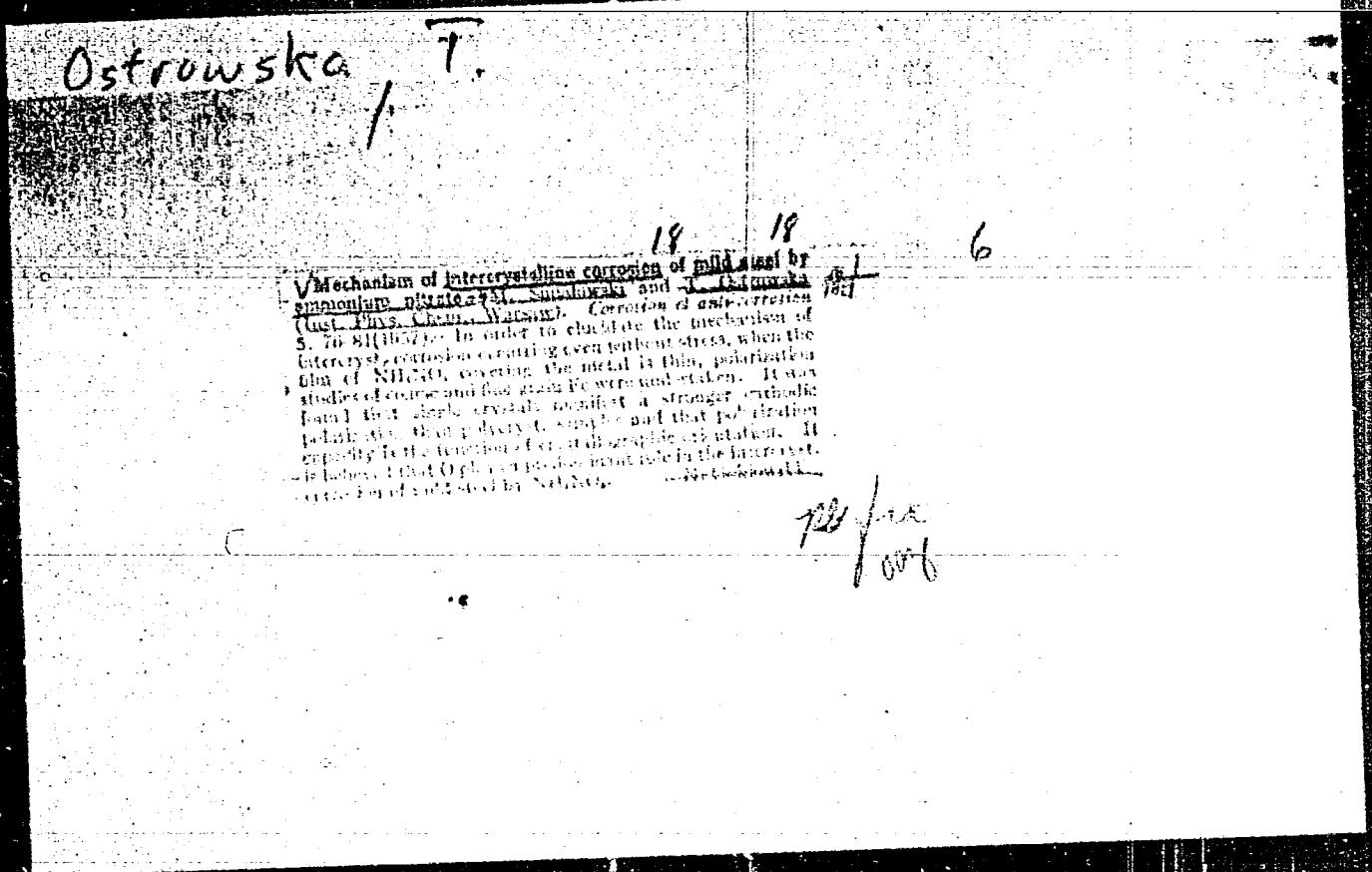
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Distr: 4E2c(n)

Corrosion kinetics of iron in ammonium nitrate solution:  
B. Rzepowski, T. Ostrowska, and M. Smialowski (Inst.  
Chem. Polon. PAN, Warsaw). Bull. Acad. polon. sci.,  
Ser. sci. Chim., rev. et progr., 7, 811-16 (1959) (in Eng.  
and Pol.)—Fe config. C 0.06, Mn 0.88, P 0.016, S 0.037,  
0.06; Ni 0.08, Cu 0.17, and Al 0.02%; was kept in 0.12N  
 $\text{NH}_4\text{NO}_3$  in Ar atm., and the amt. dissolved detd. as 2,2'-  
bipyridine. A 2-3-fold increase in dissolv. rate was caused  
by stirring. No insol. deposits on the metal surface were  
formed. Expts. with addns. of  $(\text{NH}_4)_2\text{SO}_4$  and (or)  $\text{NaNO}_3$   
suggested that the rate-controlling step involved  $\text{NH}_4^+$  ion.  
The process is not diffusion-controlled. J. Steel

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MCC(JD)

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OSTROWSKA, Teresa

Studies on allergy in guinea pigs sensitized with lyophilized  
BCG vaccine. Med.dosw.mikrob. 12 no.4:375-382 '60.

1. Z Zakladu Badania Surowic i Szczeponow P.Z.H. Kierownik:  
prof. dr H.Meisel.  
(BCG VACCINATION exper)

SZULKIN, Elzbieta; OSTROWSKA, Teresa

State (serial) control of lyophilized BCG vaccines. Med. dosw. mikrob.  
11 no.1:77-84 1959.

1. Z Zakladu Badania Surowic i Szczepionek PZH Kierownik: prof. dr H.  
Meisel.

(BCG VACCINATION  
state control of lyophilized vaccines in Poland (Pol))

SCHARE, Romuald; PRZYBYSZEWSKA, Maria; OSTROWSKA, Wanda

Indices of the use of the blood, blood plasma and other blood derivatives in Poland and in foreign countries. Pol. tyg. lek. 19 no. 31:1193-1195 3 Ag '64

1. Z Dzialu Metodyczno-Organizacyjnego Instytutu Hematologii;  
kierownik: lek. W. Ostrowska.

OSTROWSKA-KRYSIAK, Barbara; PIECHOWSKA, Mireslawa; WOLF, Jadwiga

Selection of a nitrogen source during the process of erythromycin biosynthesis. Med.dosw.mikrob. 13 no.2:159-165 '61.

1. Z Instytutu Antybiotykow w Warszawie.

(ERYTHROMYCIN chem) (STREPTOMYCES culture)

PIECHOWSKA, Miroslawa; OSTROWSKA-KRYSIAK, Barbara

Studies on conditions for paper chromatography of erythromycin. Med.  
dosw.mikrob. 13 no.2:167-172 '61.

1. Z Instytutu Antybiotykow w Warszawie.

(ERYTHROMYCIN chem)

BALCAR-BORON, Anna; OSTROWSKA-SKORA, Janina

Behavior of prothrombin in the blood serum in children with lipoid nephrosis. Polski tygod. lek. 17 no.26:1027-1028 25 Je '62.

l. z II Kliniki Dziecięcej AM we Wrocławiu; kierownik: prof. dr  
Maria Wierzbowska.  
(PROTHROMBIN) (NEPHROTIC SYNDROME blood)

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CIA-RDP86-00513R001238520006-4"

SROCZYNISKI, Kazimierz; OSTROWSKA-STACH, Helena

Studies on the behavior of the inhibiting factor in the duodenum of  
hungry rabbits. Postepy hig. med. dom. 16 no.6:1103-1112 '62.

1. Z I Kliniki Chorob Dzieci AM w Lodzi Kierownik: prof. dr K. Sroczynski.  
(DUODENUM) (HUNGER) (IMMUNITY)

BEDNARCEK, Stanislaw; OSTROWSKI, Adam; TERTIL, Zbigniew

Testing and evaluation of Polish-made PYOMid metallurgical  
generators. Przegl elektrotechn 39 no.3:117-119 Mr '63.

1. Zaklad Maszyn Elektrycznych, Akademia Gorniczo-Hutnicza,  
Krakow (for Bednarek and Tertil) 2. Zaklad M-5, Wroclaw  
(for Ostrowski).

Ostrowski, Alexander. Mathematische Miszellen. XXII.

Über gewisse Ungleichungen zwischen monotonen Zahlenfolgen. Jber. Deutsch. Math. Verein. 57, Abt. 1, 85-89 (1953).

Let  $\{x_i\}$  and  $\{y_i\}$  be two nondecreasing sets of  $n$  real numbers each. Let the distance between every two consecutive  $x_i$ 's or between every two consecutive  $y_i$ 's be at most  $2\epsilon$ . For each  $x_i$  let there be some  $y_i$  such that  $|x_i - y_i| < \epsilon$ , and for each  $y_n$  let there be some  $x_n$  such that  $|x_n - y_n| < \epsilon$ . Then, for all  $k$ ,  $|y_k - x_k| \leq \alpha$ , where  $n$  is the largest odd number not exceeding  $n$ ; and this  $n$  is the best possible.

R. P. Boas, Jr. (Evanston, Ill.).

OSTROWSKI, ALEXANDER

Ostrowski, Alexander. Über Evolventen und Evolventen  
ebener Kurven. Arch. Math. 6 (1955), 170-179.

Let  $S$  denote a simple plane arc. The coordinates  $x, y$  of its points are functions of its arc length  $s$ . The curvature  $r^{-1}$  exists and is finite, positive, and strictly monotonic. The equations  $\xi = x - r dy/ds$  and  $\eta = y + r dx/ds$  then define the evolute  $\Sigma$  of  $S$ . The following results are usually proved under stronger assumptions. The normals of  $S$  are tangents of  $\Sigma$ . The length of a sub-arc of  $\Sigma$  is equal to the difference of the corresponding radii of curvature of  $S$ . The first of the author's two proofs consists in verifying

$$\lim_{s \rightarrow s_0} \left( \frac{\xi(s) - \xi(s_0)}{r(s) - r(s_0)} + \frac{dy}{ds} \right) = \lim_{s \rightarrow s_0} \left( \frac{\eta(s) - \eta(s_0)}{r(s) - r(s_0)} \right) - \frac{dx}{ds} = 0.$$

This proof is simpler than the author's second proof and H.  
Kneser's [Arch. Math. 5 (1934), 77-80; MR 11, 984]. A  
similar idea is the basis of a proof of the following converse:  
Suppose the arc  $\Sigma$  is differentiable with respect to its  
arc length  $\sigma$  and the angle between the tangent of  $\Sigma$  and  
the positive  $x$ -axis is a continuous strictly monotonic  
function of  $\sigma$ . Let  $\xi$  and  $\eta$  denote the coordinates of the  
points of  $\Sigma$  and choose the constant  $c$  such that  $\sigma + c > 0$   
on  $\Sigma$ . Define the arc  $S$  through  $X = \xi - (c + \sigma) d\xi/d\sigma$ ,  
 $Y = \eta - (c + \sigma) d\eta/d\sigma$ . Then  $S$  is twice continuously differ-  
entiable and has the evolute  $\Sigma$ . P. Scherk.

2/2

P.Sch.

OSTROWSKI, ALEXANDER

Ostrowski, Alexander. Über Noten von Matrizen.

Math. Z. 63 (1954), 2-16.  
Continuing earlier work by the author [C. R. Acad. Sci. Paris 232 (1951), 766-788; MR 12, 566] and W. Gautschi [Duke Math. J. 20 (1953), 127-149, 375-379; Compositio Math. 12 (1954), 1-16; MR 15, 91; 16, 105, 326] the definitions for the norm and bound of a square matrix  $A$  are investigated axiomatically. A "general" norm  $N(A)$  satisfies  $N(A) \geq 0$  for  $A \neq 0$ ,  $N(cA) = |c|N(A)$  for scalars  $c$  and  $N(A+B) \leq N(A) + N(B)$ . A "multiplicative" norm  $M(A)$  further satisfies  $M(AB) \leq M(A)M(B)$ . It is shown that for multiplicative norms the axiom  $M(A) > 0$  can be replaced by  $M(A) \geq 0$  and at least one  $A_0$  with  $M(A_0) > 0$ . Next it is shown that a multiplicative norm is never exceeded by the absolute value of a characteristic root, a result also obtained by Faddejeva [Computational methods of linear algebra, Gostekhizdat, Moscow-Leningrad, 1950; MR 13, 872] and in special cases, even for non-multiplicative norms, by Gautschi. Analogous definitions hold for the norm  $\delta(\xi)$  of a vector  $\xi$ . A special vector norm is obtained from a matrix norm by considering the square matrix whose first row (or column) is the given vector and the remainder zeros. On the other hand, from any definition of  $\delta(\xi)$  a matrix norm, the so-

called "bound norm" can be obtained by taking  $\sup_{\|f\|=1} h(Af)/h(f)$ . It is shown that no  $M(A)$  is exceeded by the bound norm formed from the vector norm induced by  $H(A)$ . Even more generally an "unsymmetric" bound norm  $\sup_{\|f\|=1} h(Af)/h_1(f)$  can be obtained from two vector norms  $h, h_1$ . For general norms  $N(A)$  an estimate of  $N(A)$  is carried out for the purpose of proving that  $[N(A)]^{\frac{1}{p}}$  tends to the absolute value of the dominant characteristic root of  $A$ . The three frequently used norms  $\sum_{m=1}^n |a_{m1}|$ ,  $(\sum_{m=1}^n |a_{m1}|^p)^{\frac{1}{p}}$ ,  $\max_m |a_{m1}|$  are considered as special cases of the Hölder matrix norm  $|A|_p = (\sum_{m=1}^n |a_{m1}|^p)^{\frac{1}{p}}$  ( $p \geq 1$ ). This norm is now studied even for rectangular matrices. It is shown that  $|AB|_p \leq |A||B|_p$  for  $p \leq 2$ , while for  $p > 2$  this inequality ceases to hold in general unless  $A$  is simply a row and  $B$  a column. For  $p \geq 2$ ,  $1/p + 1/q = 1$ , we have  $|AB|_p \leq |A||B|_q$  and  $|AB|_q \leq |A||B|_p$ . For  $p < 2$  the first of these inequalities ceases to hold in general unless  $B$  is a

Ostrowski, Alexander

column, the second unless  $A$  is a row. These theorems are generalized to products of more factors, the case of an even number of factors differing from the case of an odd number. The paper contains further results concerning the norm  $(\sum_i (|x_{ij}|^p)^{q/p}, 1/p + 1/q = 1$ , and results concerning the norms derived from Hölder vector norms. A connection between the results discussed and theorems concerning linear transformations in Hilbert space is indicated. (Another recent axiomatic study of norms was made by A. S. Housholder, Oak Ridge Nat. Laboratory Rep. ORNL 1756 (1954); MR 16, 21.)

O. Taussky-Todd (Washington, D.C.)

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POLYGRAPH

3

Vorotnov, Alexander. Über die analytische Fortsetzung  
von Taylorsche und Dirichletschen Reihen. Math.  
Ann. 129, 1-43 (1955).

1-1/W

L'auteur généralise le théorème bien connu de Cramér-Ostrowski concernant le prolongement analytique d'une série de la forme (1)  $F(s) = \sum \varphi(\lambda_i) s^{-\lambda_i}$ . Des généralisations sont connues [Soulé, J. Math. Pures Appl. (9) 4, 339-353 (1925); V. Bernstein, Leçons sur les progrès récents de la théorie des séries de Dirichlet, Gauthier-Villars, Paris, 1933], où, au lieu de supposer que  $\varphi(s)$  est une fonction entière, satisfaisant, pour chaque  $s > 0$ , à la condition que (2)  $\varphi(s) = O(s^{1+\alpha})$  ( $\alpha \geq 0$ ), on suppose seulement que cette fonction est holomorphe pour (3)  $|s| \geq \delta > 0$ ,  $\alpha_1 < \arg s < \alpha_2$ ,  $\varphi(s)$  satisfaisant aussi à la condition (1) dans tout angle (4)  $\alpha_1 - t \leq \arg s \leq \alpha_2 - t$ . Dans Soulé et V. Bernstein on suppose que  $\{\alpha_2 > \alpha_1 > 0 > \alpha_2 > -\frac{1}{2}\pi$ . L'auteur démontre maintenant le théorème suivant: Soit (5)  $f(s) = \int_{-\infty}^{\infty} e^{-sx} dA(\lambda)$ ,  $A(\lambda)$  étant localement à variation bornée, l'abscisse de convergence de (5),  $\sigma^*$ , étant finie. Soit:  $\alpha_1 < 0 < \alpha_2$ ,  $\alpha_1 - \alpha_2 \leq \pi$ , et soit  $\varphi(s)$  une fonction holomorphe dans (3), satisfaisant

Analytic functions  
Series

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A (2) data chaque angle (4). Lorsque

(1867)

OSTROWSKI ALEXANDRE

$$(6) \quad F(z) = \int e^{\lambda z} \varphi(\lambda) d\lambda(\lambda).$$

$F(z)$  est alors holomorphe dans le plan.

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1 F/W

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*Spur**CSTRAWSKI, ALEXANDER.**1-FW*

Witrowski, Alexander: Mathematische Miscellen. XXV.  
Über das Verhalten von Iterationsfolgen im Divergenz-  
fall. Jber. Deutsch. Math. Verein. 59 (1956), Abt. I,  
69-79.

Let  $f(x)$  be a continuous function defined in a (closed or  
open or half-open) interval  $J$  whose values also belong to  $J$ ,  
and consider the sequence of iterations

$$(*) \quad x_{r+1} = f(x_r) \quad (r=0, 1, 2, \dots; x_0 \in J).$$

S. L. Leibenson [Prikl. Mat. Meh. 17 (1953), 351-360;  
MR 14, 1072] discussed the case of divergence of these

proves the following theorems: (1) For  $x_0 \in J$  let  $L = \liminf x_n, L' = \limsup x_n$  belong to  $J$  and be different. Then (a) there is at least one fixed point of (\*) in  $[L, L']$ ; (b)  $F_1(x) = f(x) - x$  again and again takes on positive values in each right-hand neighborhood of  $L$  and negative values in each left-hand neighborhood of  $L'$ ; (2) if all fixed points of (\*) are repelling, then there is at least one conjugate pair of points of (\*) in  $[L, L']$ . Here two numbers  $u, v \in J$  are called conjugate points of (\*) if  $f(u) = v, f(v) = u$  and  $u \neq v$ . (3) Let  $z$  be a right-hand attractive fixed point and  $Z$  a left-hand attractive fixed point of (\*) with  $z < Z$ . Then there is at least one other fixed point of (\*) between  $z$  and  $Z$ .

4. Rosenthal (Baltimore, Md.)

Ostrowski, Alexander

OSTROWSKI, ALEXANDER

Ostrowski, Alexander. Über die Darstellung von symmetrischen Funktionen durch Potenzsummen. Math. Ann. 132 (1956), 362-372.

1-FW

The classic subject developed by Isaac Newton and Jacques Bernoulli relating elementary symmetric functions and sums of powers has interested numerous algebraists ever since and is a standard topic in undergraduate texts in Algebra. It is surprising therefore that this author seems to be the first to note the interesting

Ostrowski, Alexander

functions. The discussion covers also the unreduced function type:

$$[p_1, \dots, p_r] = \sum x_1 p_1 + \dots + x_r p_r$$

and Cayley's corresponding  $(\phi)_1, \dots, (\phi_r)$ , which is the sum of the mutually distinct terms of  $[p_1, \dots, p_r]$ . The methods of proof used are elementary and largely traditional.

A. A. Bennett (Providence, R.I.)

OSTROWSKI, A.

V M1. Ostrowski, A. An approximation solution of systems of homogeneous linear equations (in German). ZAMP 8, 4, 290-293, July 1957.

Author shows that the equation  $S\xi = 0$ , where  $S$  is an  $n \times n$  matrix with zero determinant, can be solved approximately by  $\xi/\|\xi\|_1$ , where  $\xi$  is a solution of the equation  $(S + \lambda I)\xi = g$ , where  $g$  is a given (arbitrarily chosen) vector and  $I$  a matrix whose elements  $a_{ij}$  are small. The error of the solution  $\xi/\|\xi\|_1$  is of the order  $(\sum_{ij} |a_{ij}|)^{1/2}$ . Some consequences of this theorem are discussed.

D. ter Haar, England

HORSTK, Norbert; OSZMOWSKI, Antoni

Behaviour of calcium, inorganic phosphorus and alkaline phosphatase  
in the blood serum in patients with rickets treated with shock  
doses of vitamin D<sub>3</sub>. Pol. tyg. lek. 20 no.32:1187-1189 9 Ag '65.

1. Z I Kliniki Dziecięcej AM w Krakowie (Kierowniki prof. dr.  
T. Giza).

HORNICK, Herbert; STĘPIŃSKI, Antoni; MŁODCZYK, Marek

Pattern of serum protein fractions in patients with rickets  
treated with massive doses of vitamin D-3. Pol. tyg. lek. 20  
L.33:1227-1230 16 Ag '65.

., 7 I Kliniki Dziecięcej AM w Krakowie (Kierownik: prof. dr.  
Tadeusz Giza).

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CIA-RDP86-00513R001238520006-4"

EXCERPTA MEDICA Sec.11 Vol.10/4 Oto-Rhino-Laryngol Apr57  
OSTROWSKI Andrzej

728. OSTROWSKI A. and KACZYŃSKI H. Z Odd. Ftyzochir., Sanat. Bukowiec.

\*Bronchoskopia jako metoda rozpoznawcza pierwotnych nowotworów płuc  
Bronchoscopy in the diagnosis of primary pulmonary ne-

plasms GRUŻLICA 1956, 24/10 (1039-1048) Illus. 14

Fifteen cases of bronchogenic neoplasms (11 cancers and 4 adenomas) diagnosed at  
a tb sanatorium over 2 yr., are reported; diagnosis was established by broncho-  
scopy. In 2 cases bronchial adenoma coexisted with pulmonary tb; in the remaining  
cases, pulmonary tb was erroneously diagnosed before admission to the sanatori-  
um. (XV, II, 16)

GUMINSKI, Tadeusz; OTRZEWNIK, Antoni

Accidental poisoning in children. Pol. tyg. lek. 18 no.13:  
474-478 25 Mr '63.

1. Z I Kliniki Dziecięcej AM w Krakowie; kierownik: prof. dr  
Tadeusz Giza.  
(POISONING) (STATISTICS)

(POLAN)

GUMINSKI, Tadeusz and Osiowksi, Mieczyslaw, First Child Clinic  
(I Klinika Dziecięca), Faculty of Medical Education, Medical Academy, in Krakow (Director: prof. dr. Tadeusz GUMINSKI)

"Accidental Poisoning in Children."

Warsaw, Polski Tygodnik Lekarski, Vol. 18, No. 13, 25 Mar 70,  
pp. 474-478.

Abstract: [Authors' English summary modified] Authors note  
the 3.7-fold rise in cases of accidental poisoning in children  
at the clinic in 1969-70, caused mainly by drugs and  
cleaning agents. They recommend that parents be taught eda-  
tion, that distributors label toxic products as such and  
print antidotes on the labels, and that the amount of poison-  
producing medicine which may be sold be limited. There are  
six (6) references, of which one is Polish, and the others  
in English.

12/1

SZCZERPA MEDICA Sec.15 Vol.10/5 Chest Diseases May57

1161. OSTROWSKI A. and KACZYŃSKI H. Odd. Ftyzjochir., Sanat. Bukowiec.  
•Bronchoskopia jako metoda rozpoznawcza pierwotnych nowotworów płuc  
Bronchoscopy in the diagnosis of primary pulmonary  
neoplasms GRUŁICA 1956, 24/10 (1039-1048) Illus. 14  
Fifteen cases of bronchogenic neoplasms (11 cancers and 4 adenomas) diagnosed at a tb sanatorium over 2 yr., are reported; diagnosis was established by bronchoscopy. In 2 cases bronchial adenoma coexisted with pulmonary tb; in the remaining cases, pulmonary tb was erroneously diagnosed before admission to the sanatorium. The evaluation of diagnostic methods (anamnesis, physical examinations, laboratory procedures, radiological examination and bronchoscopy) lead to the conclusion that bronchoscopy combined with biopsy of the site suspected of neoplastic lesions, and associated with bronchography in cases of peripheral tumours, is the most valuable diagnostic and prognostic method. In all the 12 cases of bronchogenic tumours originating from the I, II and III bronchi, the results of bronchoscopy were confirmed by the histological examination of the specimen removed at bronchoscopy. Bronchoscopy should be used most frequently in pulmonary diseases, since it contributes to early diagnosis and increases the percentage of patients suitable for surgical treatment. (XV, 11,16)

OSTROWSKI, A.

Book—3154. Ostrowski, A. Lectures on differential and integral calculus. Vol. III. Integral calculus with several variables [Vorlesungen über Differential- und Integralrechnung. Integralrechnung auf dem Gebiete mehrerer Variablen]. Basel, Vering, Birkhäuser, 1934. 430 pp.

This is the final volume of the author's comprehensive treatise on the calculus. After a supplementary chapter on indefinite integrals, a particularly careful account of the concept of multiple integrals is presented which takes up more than one third of the entire book. This is followed by a chapter on the evaluation of multiple integrals including line integrals, total differentials, and change of variables in double integrals. The next chapter discusses surface integrals, divergence theorems, and Stokes' theorem. Improper simple integrals are the subject of chap. 5. A careful study of interchanging limits and integration is given here. Chapter 6 deals with improper multiple integrals and the gamma function. The final chapter is devoted to the study of Fourier series and integrals.

KOBIELOWA, Z.; KUCHARSKA, K.; OSTROWSKI, A.

Clinical aspects of nephrotic syndrome according to material of the Krakow Children's Hospital during the period of 1945-1959. Pol. arch. med. wewnet. 32 no.1:37-44 '62.

1. Z I Kliniki Dziecięcej AM w Krakowie Kierownik: prof. dr med. T. Giza.

(NEPHROTIC SYNDROME in inf & child)

KOBIELOWA, Zofia; KUCHARSKA, Krystyna; OSTROWSKI, Antoni

Value of different therapeutic methods in lipoid nephrosis in children.  
Pol. tyg. lek. 17 no.6:213-216 5 l' '62.

1. Z I Kliniki Dziecięcej AM w Krakowie; kierownik: prof. dr Tadeusz  
Giza.

(NEPHROTIC SYNDROME ther)

BERNAT, M.; BOIRON, Z.; FAST, J.; OSTROWSKI, B.

Radiological picture and the copy of chondromas. Polski przegl radiol.  
26 no.2:101-109 '62.

1. Z III Kliniki Chirurgicznej AM we Wrocławiu Kierownik: prof. dr  
med. Z. Jeziorek z Kliniki Radiologicznej AM we Wrocławiu Kierownik:  
doc. dr med. Z. Kubrakiewicz.

(CHONDROMA)

OSTROWSKI, C.

Electrical Engineering Abstracts  
June 1954  
Electrical Engineering

4

(3)

621,311,68 ; 621,387,4

2295. Battery pulse-supply for G-M counter.  
S. WĘGRZYN, C. OSTROWSKI AND W. PIĄTECKI-SŁOWSKI

Letter in *Acta phys. Polon.*, 11, No. 3-4, 328-9 (1953).

A 60 V battery supplies a 60 c/s relaxation oscillator with an 80 H coil in its anode circuit. The voltage derived therefrom and applied to the counter tube is variable from 960 to 1260 V and the design can be modified to develop 3 kV. Three D-series valves are employed. The circuit is given.

S. C. DUNN

10-5-54

RML

OSTROWSKI, E.

"Crop rotation in vegetable culture." p. 10  
(Plon, Vol 4 No 1 Jan 53 Warszawa)

SO: Monthly List of East European Accessions, Vol 2 No 9 Library of Congress Sept 53 Unclassified

...OSTROWSKI, P.; SAWICKI, W.

Comparison of the viability of rat cartilage evaluated by auto radiography and neutral red staining. Bul Ac Pol biol 7 no.7:  
253-258 '59. (EPAI 9:6)

1. Laboratory of Experimental Pathology, Polish Academy of Sciences. Laboratory of Histology School of Medicine, Warsaw.  
Presented by L.Paszkiewicz.

(Autoradiography) (Cartilage)  
(Stains and staining (Microscopy))

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SECRET

ORIGINALLY PREPARED BY THE COMMUNIST PARTY OF CHINA.

SECRET. (Additional classification markings on page 2)  
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CIA-RDP86-00513R001238520006-4

RECORDED, 24 SEPTEMBER, 1965.

Development of the Soviet nuclear weapons program, particularly the factory in Khar'kov, Ukraine, USSR. (U.S.A. 1965). Date, 24 Sept., 1965.

SOURCE: East European weapons list (U.S.A.), "1965," p. 10.

APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001238520006-4"

OSTROWSKI, J; KOZLOWSKI, A.

Intrafactory planning in the lumber industry. p. 141

Vol. 6, No. 6, June 1955

PRZEMYSŁ DRZEWNY. Warszawa

SOURCE: East European Accessions List (EEAL), LC, Vol. 5, no. 3, March 1956

OSTROWSKI, J.

OSTROWSKI, J. Antoni Boleslaw Dobrowolski (1872-1954). p. 125.

Vol. 2, no. 2, 1956  
KOSMOS. SERIA P: PRZYRODA NIEOZYWIONA.  
SCIENCE  
Poland

So: East European Accession, Vol. 6, No. 5, May 1957

"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001238520006-4

CSTRICKSKI, J.

"Winter irrigation." p 149  
(Gospodarka Wodna, Vol 13 No 4 Apr 53 Warszawa)

SO: Monthly List of East European Accessions, Vol 2 No 9 Library of Congress Sept 53 Unc1

APPROVED FOR RELEASE: 06/15/2000

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"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001238520006-4

OSTROSKI, J.

"How Changes in Climate and Fauna May Transform Land." p. 176 (GOSPODARKA CYMI, Vol. 13, No. 5, May 1953) Warszawa

SO: Monthly List of East European Acquisitions, Library of Congress, Vol. 2, hc.10, October 1953. Unclassified.

APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001238520006-4"

OSTROSKI, J.

OSTROSKI, J. A discussion of Professor R. Koslowsky's article "Monthly Average Amount of Evaporation in the Vistula River Basin and its Affluents during the period 1925/26-1936/37." p. 391. Vol. 14, no. 2, Sept. 1947.  
POLANDIA 17 D.A., Warsaw, Poland.

KURYLOWICZ, W.; MIKULASZEK, E.; OSTROWSKI, J.

Fractional antigens I/III in *Shigella paradysenteriae* (Flexner)  
Med.dosw.mikrob. 2 no.2:194-195 1950. (CLML 20:6)

1. Summary of the report given at 10th Congress of the Polish Mi-  
crobiological and Epidemiological Society held in Gdansk, Sept.  
1949. (Warsaw.)

OSTROWSKI, J.

Use of Shigella toxins precipitation reaction in the determination  
of anti-dysentery vaccines. Med.dosw.mikrob. 2 no.2:199-201 1950.  
(CLML 20:6)

1. Summary of the report given at 10th Congress of the Polish Mi-  
crobiological and Epidemiological Society held in Gdansk, Sept.  
1949. (Warsaw.)

RZUCIDŁO, L.; JABLONSKA, S.; OSTROWSKI, J.; FABIANSKA, L. SZUCHNIK, A.

Chemical and biological properties of purified tuberculin pro-  
teins of saprophytic mycobacteria. Med. dosw. mikrob., Warsz.  
4 no. 2:247-255 1952. (CLML 22:4)

1. Of the Institute of Tuberculosis of the Dermatological Clinic  
of Warsaw Medical Academy, and of the Manufacturing Plant of Serums  
and Vaccines in Warsaw.

ALEKSANDROWICZ, J.; OSTROWSKI, J.; PIENIAZEK, J.; WĘGRZYNOWSKA, K.

Effect of anticol on the course of caseous-cavernous tuberculosis. Polski  
tygod. lek. 7 no.23:767 9 June 1952. (CML 23:2)

1. Of the Tuberculosis Department of the Third Internal Clinic (Head--  
Prof. J. Aleksandrowicz, M.D.) of Krakow Medical Academy and of the Depart' \*  
ment of Tuberculosis (Head--J. Pieniazek, M.D.) of Krakow Municipal Hospi-  
tal.

RZUCIDŁO, L.; JABLONSKA, S.; OSTROWSKI, J.; FABIAŃSKA, L.; SZUCHNIK, A.

Chemical and biological properties of tuberculin prepared from various strains of *Mycobacterium tuberculosis*. *Oruslica*, Warsz. 20 no. 3:31)-32) May-June 1952. (CML 23:2)

1. Of the Institute of Tuberculosis (Director--Prof. J. Misiewics, M.D.) and of the Dermatological Clinic of Warsaw Medical Academy and of Warsaw Vaccine and Serum Manufacturing Plant.

RZUCIDŁO, L.; RUDZKI, E.; SOHOLEWSKA, M.; OSTROWSKI, J.

Antigenic Wassermann component in phosphatides of *Mycobacterium tuberculosis* and saprophytic bacilli. *Med. dosw. mikrob.* 5 no.1:39-49  
1953.  
(CLML 24:5)

1. Of the Dermatological Clinic of Warsaw Medical Academy and of the Institute of Dermatology and Venereology in Warsaw.

*Streptomyces faecalis*. Edmund Mikolasek and Jan Dabrowski (Akad. Med. Warszaw). *Med. Doswiadczalna i Akademicka*, 6, 75(1934). — Twenty-four 48-hr. agar cultures suspended in H<sub>2</sub>O were frozen, thawed, and centrifuged. The supernatant was filtered and treated according to Bolvin and Mercobea (C.A. 31, 4900). The bacterial residue suspended in 0.08N NaOH was also fractionated. Both fractions contain toxic substances, one a protein, the other a polypeptide-protein complex. L.Z.R.

F045/60/014/007/007  
B022/B070

AUTHOR: Ostrowski, J. W.

TITLE: Collision Recombination in Tl<sub>2</sub>S

PERIODICAL: Acta Physica Polonica, 1960, Vol. 19, No. 4, pp. 411-416

TEXT: Section 1 gives a review of the literature showing that papers both theoretically and experimentally dealing with collision recombination are few in number, and that whatever data are available come from widely different semiconductors at different temperatures. The author has investigated the relaxation of photoconductivity in semiconductor micro-crystalline p-type Tl<sub>2</sub>S polycrystal layers of a thickness ranging from 0.3 - 1.5  $\mu$ , evaporated in vacuum at about 450°C on to the cooled wall of the glass cell in which the sample was subsequently enclosed. The phenomenological model:  $r = \alpha n p^2$  ( $r$  - number of recombination events per  $cm^3$  and sec,  $\alpha$  - coefficient of recombination,  $n, p$  - concentration of free electrons and holes, respectively) was proposed, being found to yield the best agreement with the experimental results. Expressions for relaxation

Card 1/3

Collision Recombination in  $Tl_2S$ P'045/66/C14/CC/107-1  
3021.8070

time, conductivity and relations between the measurable quantities, namely, hole concentration in darkness at thermodynamic equilibrium, coefficient of collision recombination  $\alpha$ , and the "effective" mobility of free current carriers are derived. Measurements were made of the ratio of dark and total conductivity, half life of photoconductivity, conductivity, sensitivity, and temperature at various depths in the layer. The number of light-generated carriers was computed. The temperature dependence of relaxation time and electric conductivity was investigated. Table 1 gives the values of various quantities, including the recombination coefficient  $\alpha$ , at room temperature. This is the first time that  $\alpha$  has been obtained experimentally. In Table 3, numerical data obtained with the layer with which most of the measurements had been carried out and which could be considered to present average properties are assembled. The model of collision recombination as adopted is, in general, confirmed by experiment. It is certainly no more than an approximate one, says the author, and adds that the material of the kind used is hardly adapted to the verification of the finer, quantitative consequences resulting from the more detailed assumptions in the model. Experimental results indicate that recombination through intermediate states is not predominant here.

Card 2/3

Collision Recombination in  $T_{1/2}S$

F045/60/014/C03/001  
B072/8C70

It is suggested that further research work on the mechanism of collision recombination should be conducted with material of a type free from the disadvantages of the polycrystalline one investigated. The author thanks Professor Dr. L. Sonowski for suggesting the problem and for helpful discussions. Dr. J. Mycielski, Miss I. Turak, and Dr. I. Birowska are mentioned. There are 15 figures, 7 tables, and 9 non-Soviet references: 4 US, 2 British, and 2 Polish.

ASSOCIATION: Institute of Physics, Polish Academy of Sciences, Warsaw

Card 3/3

OSTROWSKI, Janusz

Importance of herbicides and synthetic growth agents and their  
consequences of their application. Postery nauk roln. 2  
no.2:117-127 Mr-Ap '62.

1. Instytut Przemyslu Organicznego, Warszawa.

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Q1110WSDP, 1941-1942

... Zvezdochka. Dostupnost: Atribut: Mnozhestvo: Rassred: 1  
Slozhnost: 1. Zvezdochka.

... Zvezdochka. Dostupnost: Atribut: Mnozhestvo: Rassred: 1  
Slozhnost: 1. Zvezdochka.

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ZIOLKIEWICZ, Tadeusz; OSTRONSKI, Jozef; KLA-LINARTOWSKA, Halina;  
**KORPAL** BROKOWSKA, Beata; BROZOMSKA-ZAHANIECKA, Irena.

Orthodontic abnormalities in youth during puberty in the  
villages of Suchylas and Parkow (Poznan district). Czas.  
stomat. 18 no.5: 3-57 Ky'5.

Orthodontic abnormalities, dental conditions, caries, and  
endoerine caries in youth during puberty inhabiting the villages  
of Suchylas and Parkow (Poznan District). Ibid **579-582**.

1. Z Zakladu Ortodontii Akademii Medycznej w Poznaniu (Kierownik: doc. dr. T. Ziolkiewicz).

OSTROWSKI, Jan

Anti-corrosive protection of railroad tanks. Wiad naft 7 nc.12:  
282-284 '61.

CSTROWSKI, J., podpułkownik pilot

Passive defense of bomber airplanes against fighter planes.  
Wojsk przegl 15 no.9:3-13 S '61.

10 12 10 25997

P/032/00/007/004, 002/002  
D287/D306

AUTHOR: Ostrowski, Jerzy (Warszawa)

TITLE: Flow properties of swept-back wings within the range  
of critical angles of attack

PERIODICAL: Archiwum budowy maszyn, v. 7, no. 4, 1960, 479-566

TEXT: The author discusses results of research on flow properties of 5 series of swept-back wings within the range of critical angles of attack, corresponding to the flow with partial separation at high incidences. The data contained in this paper were reported by the author, among others, on scientific conferences at the Zakład mechaniki cieczy i gazów I.P.P.T. PAN (Department of Fluid Mechanics of the I.I.I.T. PAS) in 1955, 1957 and 1959. The research work was started in 1952 by Professor Bukowski and was carried on under his leadership within the scope of the research work conducted at the Katedra aerodynamiki politechniki Warszawskiej (Department of Aerodynamics at the Warsaw Polytechnic Institute) and at the Department of Fluid Mechanics of the I.P.P.T. PAS. Swept-back wings of various profiles, including NACA-0012 and NACA-66012 profiles, and sweep

Card 1/4

5997

P/032/60/007/004/002/002

D287/E306

Flow properties of...

angles of  $0^{\circ}$ ,  $15^{\circ}$ ,  $30^{\circ}$ , and  $60$  degrees were tested in a wind tunnel. The wind velocity was  $40$  m/sec,  $N_{Re} = 0.815 \cdot 10^6$ , and the tunnel turbulence factor was  $1.45$ . The tests comprised visual observation of the flow around the wings, balance measurements, pressure distribution measurements, and comparative measurements of the velocity distribution in the boundary layer. The purpose of these tests was to investigate a certain phenomenon occurring on swept-back wings within this range of critical angles of attack. The phenomenon manifests itself by sharply formed vortices. In wings with blunt noses and small sweepback angles, these vortices are formed on the leading edge between the sucked and separated flow and become transferred towards the wing center simultaneously with the increase of the separation zone. In wings with large sweepback angles, small elongation and sharp noses, these vortices develop along their edges. With the increment of the angle of attack, the vortices revolve and show a tendency to curve. The tests showed that, apart from the above-mentioned vortices, other vortex systems develop under certain particular parameters. Especially in wings with large sweepback angles, blunt noses and closely approached maximum thickness, strong vortices develop on the border of the boundary

Card 2/4

2997

P/032/60/007 004, 002, 002

D287/D306

## Flow properties of

layer. In a wing with  $60^{\circ}$  sweepback angle, a single sharply outlined vortex is formed. In a wing with  $45^{\circ}$  sweepback angle, this vortex becomes feebler and is less easily distinguished. A peculiar feature of the stream flow is the formation of a vortex on the trailing edge. The axis of this vortex is almost parallel to the trailing edge and its vorticity direction is reversed to that of the vortices described before. This vortex is relatively weak and located beyond the wing below the upper surface. Apart from modifications of pressures at the trailing edge, it does not cause visible load variations. Furthermore, the author describes the interdependence of generated vortex systems, analyzes their structure and gives examples of instability of the generated eddy flows and the influence of the Reynolds number. There are 110 figures, 2 tables and 15 references: 2 Soviet-bloc and 13 non-Soviet-bloc. The four most recent references to English-language publications read as follows: D.A. Kirby and A. Spence: Low-Speed-Tunnel Model Tests on the Flow Structure Behind a Delta-Wing Aircraft and a 40 Deg. Swept-Wing Aircraft at High Incidences Reports and Memoranda, No. 3079, 1958; D. Kuechemann: The Effects of Viscosity of the Type of Flow on Swept Wings. An article from the paper Boundary Layer Effects in Aerodynamics. National Physical Laboratory.

Card 3/4

25997

P/032/60/007/004/06...002

D287/D306

Flow properties of . . .

1957; J. Black: Flow Studies of the Leading Edge Stall on a Swept-Back Wing at High Incidence. Journal of the Royal Aeronautical Society. January 1956; J. Black and R. L. Hunt: Some Measurements of Leading Edge Separation Bubbles on a 10 per Cent Thick Symmetrical Aerofoil. Journal of the Royal Aeronautical Society. December 1953. [Abstractor's note: The article is 88 pages long. Its length and complexity render it practically impossible for normal abstracting.]

ASSOCIATION: Katedra aerodynamiki politechniki Warszawskiej (Department of Aerodynamics at the Warsaw Polytechnical Institute)

SUBMITTED: May, 1960

Card 4/4

OSTROWSKI, Jerzy (Warszawa)

Influence of the geometrical parameters of inlet ports on  
the shaping of the flow of the gas expelling process in cy-  
linders of ship engines. Archiw bud masz 10 no. 2: 141-172  
'63.

OSTROWSKI, JERZY.

Podstawowe wiadomosci z dziedziny robot siemnych; dla rozpieraczy  
wykopow kanalowych. (Wyd. 1.) Warszawa, Budownictwo i Architektura,  
1955. 102 p. (Basic information in the field of earthworks; for  
workers in the reinforcement of canal excavations. 1st ed. illus.,  
bibl., diagrs., tables)

SOURCE: East European Accessions List (EEAL), LC, Vol. 5, No. 3,  
March 1956

OSTROWSKI, Jozef, mgr

Remarks concerning the studies on corrosion resistance of  
materials used in hydraulic soil improvement engineering.  
Gosp wodna 2<sup>o</sup> no. 8/4;363-364 Ag-S '63.

1. Department of Soil Improvement, Institute of Soil  
Improvement and Grasslands, Warsaw.

G. STRÓWICKI, J. W.

3

POL.

Kinetics of photoconductivity of thallous sulfide. J. W. Strówicki and A. Borowczyk. *Zes. Nauk. Warszaw. Inst. Fiz. Polon. Sci. Classe III*, 2, 385-8 (1954). For the measurements of the sensitivity and decay time of the photoconductivity the layers of Tl<sub>2</sub>S were illuminated by short light pulses in addition to a much stronger const. background illumination. The results show that relaxation time and sensitivity are dependent on the intensity of the background illumination.

The occurrence of barrier effects is not the dominating factor detg. the cond.

BB  
gj

11F

CA

The effect of ionic zinc on the biological activity of estro-

gens. K. Piattowski and W. Smakiewicz. Rzecznik Publ. im. M. Zajączkowskiego. 1961, tom 10, nr 1. The effect of Zn on the toxicity of estrogens was tested by the change in the estrogen cycle of 180 min. The estrogens were injected subcutaneously either in oil or in a H<sub>2</sub>O soln at pH 5 or 8 alone or in a soln with ZnSO<sub>4</sub> or separately with a soln of ZnSO<sub>4</sub>. Each mouse received 0.5 mg. Zn<sup>++</sup> and some 2 mg. of estrogen. The results were evaluated by means of the 180 min test. The results of the Allometric method and the Dziewol'ski method were also applied. The results of the test are shown. The changes in the estrogen cycle were obtained by the method of Dziewol'ski. Author: K. Piattowski

OSTROWSKI, K.

Effect of massive doses of vitamin A on mitochondria in intestines in  
mice. Pol. morph., Warsz. 3 no.1:81-96 Jan-Mar 1952. (CLML 23:4)

1. Of the Institute of Histology and Embryology (Head--Prof. Juliusz  
Zweibaum, M.D.) of Warsaw Medical Academy.

OSTROWSKI, K.

①

Vitality of tissues preserved in low temperatures. K. Ostrowski and T. Kosteck (Bull. Acad. polon. Sci., 11, 1953, 1, 11-14). In cartilage preserved at -39° and -79°, 1-4% and 4-10% of the cells remain alive. Defrosting was done at room temp. or 37° but in addition of slow defrosting the preserved cartilage dies. Neutral red is used for vital staining. The vitality of a cartilage left in a joint 28 hr. after the death of the animal is equal to that of a cartilage 1 ft. in Ringers fluid for the same length of time.

F. C. BUTTERWORTH

OSTROWSKI, K.

The toxin of Shiga's dysentery bacillus. R. Mikutarek  
and K. Ostrowski. *Zeszyty Naukowe Uniwersytetu Warszawskiego, Wydział Medyczny*, Warszawa, 1951, tom 1, fasc. 1, 27-36 (1951) (in English). — By means of solvent extraction and isoelectric point fractionation, normal and variant forms of dysentery bacteria were separated into several fractions, viz.: protein ectotoxin (I), nucleoprotein (II), endotoxic polysaccharide complex (III), polysaccharide 1 from the complex (IV), 66% alc. precipitable polysaccharide 2 from the complex (V), 85% alc. precipitable, and protein from the complex (VI). All these fractions contained protein (varying from 0.7 to 12.0% in V), P (0.9 to 1.7%), and nucleic acid (1 to 6%). Nucleic acids combined in cells with proteins as well as with polysaccharides. I had slow neurotropic action, whereas III caused rapid intestinal symptoms in exptl. animals. The toxicity of I was much higher than that of III. LD<sub>50</sub> of endotoxin from smooth (S) and rough (R) strains was 0.01 mg. and 0.08 mg., resp. In pptn. reaction with horse serum immunized with a mixt. of S and R strains, the activity of the various polysaccharide fractions of *Shigella shigaee*, S strain, was: V > III > the polysaccharide obtained from the bacterial residue after alk. hydrolysis > IV (completely inactive); and that of the various protein fractions was: I > II > VI. The last fact was perhaps due to denaturation of the protein during the processing. No marked difference in the pptn. activity was observed in the protein fractions between S and R strains. However, the only polysaccharide fraction with a significant precipitinogen activity from R strains was the basic polysaccharide from the residue, whereas III, IV, and V showed little or no activity. I, from both R and S strains, gave a strong reaction only with antiectotoxic serum while the antiendotoxic serum reacted with endotoxin from S strains. Antiectotoxic rabbit serum showed a strong protecting action on mice.

T. E. King

OSTROWSKI, K.; KOSTIK, T.

Studies on vitality of tissue preserved in low temperatures; studies  
on vital staining of cartilage preserved in low temperature. Pol. morph.,  
Warsz. 4 no.2:101-115 1953. (GIML 2511)

1. Of the Institute of Histology and Embryology (Head--Prof. J. Zwolbaus,  
M.D.) and of the Third Surgical (Orthopedic) Clinic (Head--Prof. A. Gruca,  
M.D.), Warsaw Medical Academy.

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OSTROWSKI, K.

"A skeleton lives", p. 38, (PROBLEMY, Vol. 9, No. 1, 1953, Warszawa, Poland)

SO: Monthly List of East European Accessions, L.C., Vol. 3, No. 4, April, 1954

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OSTROWSKI, Kazimierz; KOSTEK, Tadeusz

Morphogenesis of articular cartilage cultured in the anterior chamber of the eye. Pol.morph., Warsz. 6 no.3:217-224 '55.

1. Zaklad Histologii i Embriologii A.M.w Warszawie, Kierownik:  
prof. dr J. Zweibaum.

(CARTILAGE, embryology,

transpl. of articular cartilage into anterior chamber of eye in rats)

(TRANSPLANTATION,

cartilage, embryonic articular, into anterior chamber of eye in rats)

(EYE, physiology,

implant of embryonic articular cartilage into anterior chamber in rats)

OSTROWSKI, K.; BARANSKI, S.; KAWIAK, J.

Studies on a correct selection of histological techniques for autoradiography. Rozpr. wyd. nauk med. no.3:103-114 1958.

1. z Zakladu Patomorfologii Polskiej Akademii Nauk Kierownik: prof. dr. med. L. Paszkiewicz oraz z Zakladu Histologii Akademii Medycznej Kierownik: prof. dr Juliusz Zweibaum (Przedstawil: prof. dr nauk med. Ludwik Paszkiewicz).

(RADIOAUTORAPHY,  
histol. method (Pol))

OSTROWSKI, Kazimierz

Problems concerning the application of low temperatures & lyophilization  
in biology & clinical medicine. Polski tygod. lek. 13 no. 43:1687-1688  
27 Oct 58.

(REFRIGERATION,  
freezing & lyophilization in biol. & med. (Pol))

OSTROWSKI, K.

Interference microscopy; theory and application. Postepy biochem.  
5 no.1:17-46 1959.

l. Doc. dr med., docent Zakladu Histologii i Embriologii A. M. w  
Warszawie.

(MICROSCOPY,  
interference microscopy, review (Pol))

JOCHWESS, Beniamin; CZERNIK, Zndrzej; OSTROWSKI, Kazimierz

Investigations on the effect of small doses of strophanthin on the ballistocardiogram. Polski tygod. lek. 14 no.5:201-204 2 Feb 59.

1. (Z III Kliniki Chorob Wewn. A.M. w Warszawie; kierownik: prof. dr nauk med. J. Wagierko) Adres: Warszawa, ul. Oczki 6. III Klin. Chorob Wewn. A.M.

(STROPHANTHIN, eff.  
on ballistocardiogram (Pol))  
(BALLISTOCARDIOGRAPHY, eff. of drugs on  
strophanthin (Pol))

OSTROWSKI, Kazimierz; SERZYNSKO, Wieslaw

Ballistocardiographic changes after effort in patients with mild circulatory insufficiency. Polski tygod. lek. 14 no.15:665-669  
13 Apr 59.

1. (Z III Kliniki Chorob Wewnętrznych A. M. w Warszawie: kierownik:  
prof. dr med. Eugeniusz Kodejszko).

(BALLISTOCARDIOGRAPHY, in various dis.  
mild circ. insuf., eff. of exercise (Pol))

(CARDIOVASCULAR DISEASES, physiol.  
ballistocardiography in mild circ. insuff.,  
eff. of exercise (Pol))

(EXERCISE, eff.  
on ballistocardiography in mild circ. insuff. (Pol))

JOCHWEDS, Benjamin; OSTRÓWSKI, Kazimierz; SZERZYSKO, Wiesław

Effect of intravenous injections of scillaren on the ballistocardiography. Polskie arch. med. wewn. 29 no.6:775-782 1959.

1. Z III Kliniki Chorob Wewnętrznych A. M. w Warszawie Kierownik:  
prof. dr med. E. Kodejszko.  
(SQUIL, pharmacol.) (BALLISTOCARDIOGRAPHY, pharmacol.)

HINTZ, hepatic; OSTRONSKI, Kazimierz; LITWAK, Arnold

On so-called "impotence" syndrome. Wiad. Lek. 1955, No. 15, p. 155.

1. z III Kliniki Chorob Wewnętrznych Akademii Medycznej w Warszawie (Kierownik: prof. dr. med. E. Kodejuszko) i z Kliniki Urologicznej Akademii Medycznej w Warszawie (Kierownik: prof. dr. med. S. Wasilowski).

GURKOWSKI, S.; MUSIELAKOWSKI, S.; KOTYAGOWSKI, W.; RUDIK, ..

Organization and activities of the Central Military Hospital  
typ. lek. 20 no. 40124 w-w-4, " ", 1976.

1. z Komisji Konserwacji Tkanek Polskiej Akademii Nauk i z  
Instytutu Histologii i Embriologii AN w Warszawie (Kierownik:  
prof. dr. med. Karimierz Ostrowski) oraz z Pracowni Konser-  
wacji Tkanek 2 Centralnego Szpitala Klinicznego Wojskowej AN.

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APPENDIX , EXCERPTS FROM THE RECORDS

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ACCESSION NR: AP4046797

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AUTHOR: Bobrowski, C.; Chrusciel, E.; Ostrowski, R.

TITLE: Construction of a nickel filter and titanium container for deuterium  
and tritium 27 27 27

SOURCE: Przeglad elektroniki, no. 8, 1964, 406-411

TOPIC TAGS: nickel filter, deuterium container, tritium container, gas diffusion,  
selective diffusion, hydrogen isotope production, radiation detector, water  
electrolysis

ABSTRACT: The paper describes an attempt to use the selective diffusion of gases through metals for the production of small quantities of hydrogen, deuterium and tritium for use in accelerators and nuclear radiation detectors. Selective diffusion of gases in metals is briefly discussed. A container for H, D and T of very simple construction and using titanium-coated spirals is illustrated and briefly described. The container will probably be very useful for investigations which require storing and accurate dosing of gaseous tritium. A nickel filter of simple construction for the purification and dosing of hydrogen and deuterium is shown in Fig. 1 of the Enclosure. The nickel tube 1, 2 mm in diameter and 0.1 mm in wall thickness, is soldered using a vacuum solder (Ag-Cu) to Kovar containers 2, Cord 1/4